<u>Delaware Electric Cooperative</u> <u>Generator Interconnection Application – Long Form</u>

(For Use with Generators Greater than 25 kW)

An applicant (Generator Owner) makes application to Delaware Electric Cooperative to install and operate a generating facility greater than 25kW interconnected with the Delaware Electric Cooperative utility system.

Section 1, Applicant Information Is the following system: Leased or Member Owned
Name: Dorothy Loockerman
Mailing Address: (0070 SCDHS Store RO.
Pridonalla DE 10022
Facility Location (if different from above): 14564 Blanchard Rd. Bridge VIIIE De
Telephone (Daytime): Area Code <u>302</u> Number <u>236-3308</u> (Evening) Area CodeNumber
Delaware Electric Cooperative Account No.: 2878302
Rate Code: 5P6
Section 2, Generator Type
Is Generator powered from a Renewable Energy Source: Yes No
Type of Energy Source (if applicable): Solar Wind Hydro
Other generator energy source: Diesel, Natural Gas Diesel, Fuel Oil Other:
Will excess power be exported to Delaware Electric Cooperative?
Site Load: 49.6 kW (Typical) Maximum Export:kW.
Section 3, Generator Technical Information
Type of Generator: Synchronous DC Generator or Solar with Inverter
Generator (or solar collector) Manufacturer, Model Name & Number: AxHec AC-310P-156-728
(A copy of Generator Nameplate and Manufacturer's Specification Sheet may be substituted) (100 panels) Output Power Rating in kW: .310 kw OC
Inverter Manufacturer, Model Name & Number (if used): SMA SB 900711-US-22 (A copy of Inverter Nameplate and Manufacturer's Specification Sheet may be substituted)
Rating in kW: 7.68 Kweach (5)
Generator Characteristic Data (for rotating machines): (Not needed if Generator Nameplate and Manufacture's Specification Sheet is provided)
Direct Axis Synchronous Reactance, X _d :P.U. Negative Sequence Reactance:P.U.
Ddirect Axis Transient Reactance, X'd: P.U. Zero Sequence Reactance: P.U.
Direct Axis Subtransient Reactance, X": P.U. KVA Base:

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Section 4, Interconnecting Equipment Technical Data

Will an interposing tra	ınsformer be	used between the g	enerator and	the point of		₩.
Transformer Data (if a					Yes[➤ No
Size: KVA . T	Transformer P	rimary :	Volts _	Delta	Wye Wye G	rounded
1	ransformer S	econdary:	_Volts	Delta	Wye Wye C	irounded
Transformer Impedan	ce;%	on KVA B	ase			
Transformer Fuse Date (Attach copy of fuse manu						
Manufacturer:	·	Туре:	Size:		Speed:	
Interconnecting Circuit (A copy of breaker's Name			substituted)			
Manufacturer:	_ Type:	_ Load Rating: (Am	Interrup ps)	ting Rating: _ (Trip Speed:	(Cycles)
Circuit Breaker Protec (Enclose copy of any prope			Curves)			
Manufacturer:	Туре:	Style/Catalog	No.:	Proposed	Setting:	
Manufacturer;	Туре;	Style/Catalog	No.:	Proposed	Setting:	
Manufacturer:	Туре:	Style/Catalog	No.:	Proposed	Setting:	
Manufacturer:	Type:	Style/Catalog	No.:	Proposed	Setting:	
Manufacturer:	Туре:	Style/Catalog	No.:	Proposed	Setting:	-
Current Transformer D (Enclose copy of Manufact	oata (if applica urer's Excitation	able); n & Ratio Correction (Curves)			
Manufacturer:	Type:	Accuracy Clas	38:	Proposed R	tatio Connection: _	/5
Manufacturer:	Туре:	Accuracy Clas	ss:	_Proposed R	tatio Connection:	/5
Generator Disconnect S	<u>Switch:</u>					
A lockable disconnect of by DEC personnel, by	and at the cos	t of the owner.				
Manufacturer SQD	Type: US	Catalog No.:Da	ZHNRRate	ed Volts:	10 Rated Amps: 4	00_,
Single or 3 Phase:	KL Mountin	g Location: OSI	de Utili	Ty mete	r/Wthun E	steet

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Section 6, General Technical Information

Enclose copy of site One-Line Diagram showing configuration and interpotential circuits and protection and control schemes. Is One-Line Diagram		current and Yes
Enclose copy of any site documentation that describes and details the class Any Available Documentation Enclosed?:		control schemes. Yes
Enclose copies of schematic drawings for all protection and control circuits, and alarm/monitoring circuits. Are Schematic Drawings		y potential Yes
Section 7, PJM Interconnection Queue		
The Generator Owner must submit a Generation Interconnection Requedesignated in whole or in part as a Capacity Resource to PJM or, if generator electrical location. Generation which is operating "behind the retransmission system and which does not intend to participate in the PJM to the PJM interconnection queue. PJM has sole discretion on interconnection	erator intends to sell output to a meter" in isolation from the PJM A wholesale energy market may	nnother entity at I bulk power
Prior to installation send the completed Pages 1-3 to Delaware Elec Manager of Engineering: Phone: (302) 349-3125 Email: tdickerson Greenwood, DE 19950	tric Cooperative, Attn: Troy @decoop.com or mail to P.O.	Dickerson, Box 600
Section 8, Preliminary Approval to Proceed with Interconnection		
Delaware Electric Cooperative: X Has Approved Has Not Approve	ed this Preliminary Application	ı .
Name: Tony Rutherford Cotton to the properties of the control of t	Date: 11/12/2015	······
Signature:	-	
Reason of Not Approving:		



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Section 8, Installation Datails Generating System will be installed by: Owner , State Licensed Electrician
Installing Blectrician: Robert Miller Flum: Robs Electric Inc. License No.: 12-0024061
Mailing Address: 156 Pleasant Cove Lane
City: Dover State: DE zip Cade: 19904
Telephone with Area Code: 302 343 9030
Installation Date: 125 16 - 2216 Interconnection Date.
Supply certification that the generaling system has been installed and inspected in compliance with the local Building/Electrical code of the municipality of
Signed (Inspector): (In lieu of signature of Inspector, a copy of the final inspection certificate may be prinched)
Section 2. Constalor/Equipment Certification
Generating systems that utilize inverter technology must be compliant with ISEE 1547 and Underwriters Lab, UL 1741. Generating systems must be compliant with Delaware Electric Cooperative's "Technical Requirements for Parallel Operation of Member Owned Generation" document. The Applicant must certify that the installed generating equipment meets the appropriate preceding requirement(s) and can supply documentation that confirms compliance. Generation caunot be turned on until a Delaware Electric Cooperative representative has performed a site visit, installed a warning label near the service meter, and has authorized the system for interconnection.
Section 10. Applicant Signature
hereby certify that, to the best of my knowledge, all the information provided in the interconnection Application is true and correct.
Signature of Applicant: Landly 1. Landles poster 5/3/12

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(For Use with Generators Greater than 25 kW)

This page for use by Delaware Electric Cooperative Only

Name: Tony Rutherford Descriptions and Committee of Committee and Committee of Committee and Committ	Date:	3/3/2016
Signature:		
Reason of Not Approving:		
		·
Approval to connect to the Company system indicates only that proper interconnection have been satisfied. Such approval Owner's facility meets all federal, state and local standards or r	does not in	
proper interconnection have been satisfied. Such approval	does not in	
proper interconnection have been satisfied. Such approval Owner's facility meets all federal, state and local standards or a	does not in	ply that the Generate
proper interconnection have been satisfied. Such approval Owner's facility meets all federal, state and local standards or a Section 11, Internal Checks and Notifications	does not in egulations.	ply that the Generate
proper interconnection have been satisfied. Such approval Owner's facility meets all federal, state and local standards or a Section 11, Internal Checks and Notifications DEC has performed a site visit and approved the system:	does not in regulations.	ply that the Generate
proper interconnection have been satisfied. Such approval Owner's facility meets all federal, state and local standards or a Section 11, Internal Checks and Notifications DEC has performed a site visit and approved the system: DEC has installed a Warning Label on or near the service meter:	does not in regulations.	pply that the Generates s s
proper interconnection have been satisfied. Such approval Owner's facility meets all federal, state and local standards or a Section 11, Internal Checks and Notifications DEC has performed a site visit and approved the system: DEC has installed a Warning Label on or near the service meter: Notify Billing Dept. of Interconnected Generation:	does not in regulations. Ye Ye Ye	pply that the Generate s s s

Greenwood, DE 19950